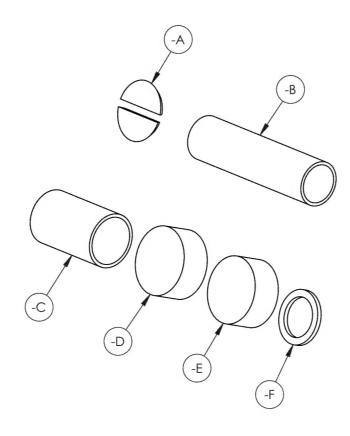
	REVISIONS								
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED				
Α		CH'D TITLEBLOCK & REVISION BLOCK, CH'D TOOL NUMBER FROM RB67828.	8/12/2009	RJC	RW				
1		-B & -C MATERIAL CH'D WAS SCHEDULE 40 IS DOM SEAMLESS.	10/16/2013	RJC	GE				
2	17-0054	-A, -C, -D, -E, -F ADDED NOTE ENGRAVE P/NA CH'D MATERIAL WAS 4130 IS 4140/4142B, -C, -D, -E, -F CH'D TOLERANCES FROM ±0.05 TO ±.010, FROM ±.01 TO ±.03B CH'D DIM'S WAS Ø2.875 IS Ø2.88, WAS Ø2.51 IS (@2.469), WAS 11 IS 11.00. ADDED NOTE ENGRAVE T/N, 5/N, "MADE IN USA" P/N. CH'D MATERIAL WAS DOM SEAMLESS IS SCHEDULE 40C CH'D DIM'S WAS Ø3.5 IS Ø3.50, WAS Ø3.094 IS (Ø3.068). CH'D MATERIAL WAS DOM SEAMLESS IS SCHEDULE 40D CH'D DIM WAS Ø4.4 IS Ø4.40, WAS 2 IS 2.00. ADDED NOTE ENGRAVE "E"F CH'D DIM WAS Ø3.5 IS Ø3.50, WAS 3 IS 2.00. ADDED NOTE ENGRAVE "E"F CH'D DIM WAS Ø3.5 IS Ø3.50, WAS 3 IS 2.00. ADDED NOTE ENGRAVE "E"F	3/3/2017	RJC	JAG				





DWG NO.

M/R HUB BEARING TOOLS

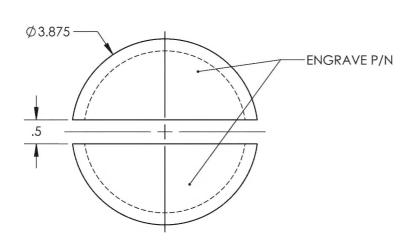
ASSY QTY	ASSY QTY	В/О	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.	MAT HEA TREA FINIS
			-A	1	PRESS BEARING CUPS OUT OF HUB	4140/4142		2	SPE
			-B	1	PRESS BEARING CUPS OUT OF HUB	SCHEDULE 40		3	DRA
			-C	1	PRESS LOWER BEARING CONE ON SLEEVE BUSHING	SCHEDULE 40		4	CHE
			-D	1	PRESS UPPER BEARING CUP INTO HUB	6061		5	OPP:
			-E	1	PRESS LOWER BEARING CUP INTO HUB	6061		6	APPI
			-F	1	IN PLACE OF UPPER SEAL RETAINER WHILE ADJUSTING ROTATIONAL DRAG	4140/4142		7	SC

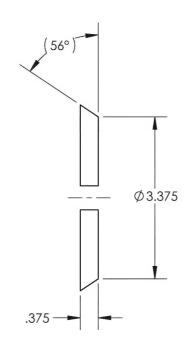
/G NO.	RBT	67828	2
T'L		UNLESS OTHERWISE SPECIF DIMENSIONS ARE IN INCHE	
AT_		.xxx + .005 FRACTIONS ± 1/8	:5
EAT ISH		.XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 1	25/
EC		1. BREAK ALL SHARP EDGES	<b>V</b>
AWN BY:	PERRITT	.015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY	
		Z. DINIENSIONAL LIMITS APPLY	

2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DUERFELDT PS APPR: ANDERSON APPR: LINDSAY USED ON MODEL PROVED:

MD HELICOPTERS GILBERT CALE 1:6 7/1/2005 SHEET 1 OF 7

	REVISIONS							
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
2	17-0054	-A ADDED NOTE ENGRAVE P/N. CH'D MATERIAL WAS 4130 IS 4140/4142.	3/3/2017	RJC	JAG			









M/R HUB BEARING TOOLS

DWG NO. RBT67828-A MAT'L 4140/4142 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/8

.XX + .01 ANGLES ± .5°

.X ± .1 SURFACES = 125/ TREAT
FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D 1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DRAWN BY: PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: MD HELICOPTERS GILBERT SCALE

7/1/2005

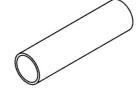
SHEET 2 OF 7

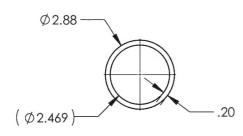
1:2

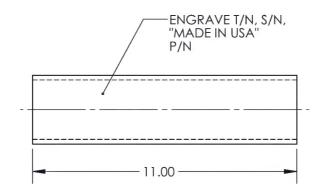


PRESS BEARING CUPS OUT OF HUB

	REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED		
1		-B MATERIAL CH'D WAS SCHEDULE 40 IS DOM SEAMLESS.	10/16/2013	RJC	RW		
2	17-0054	-B CH'D DIM'S WAS Ø2.875 IS Ø2.88, WAS Ø2.5 IS (Ø2.469), WAS 11 IS 11.00. ADDED NOTE ENGRAVE T/N, S/N, "MADE IN USA" P/N. CH'D MATERIAL WAS DOM SEAMLESS IS SCHEDULE 40. CH'D TOLERANCES FROM ±.005 TO ±.010, FROM ±.01 TO ±.03. ADDED DIM .20.	3/3/20107	RJC	JAG		







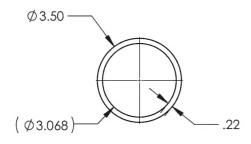
## M/R HUB BEARING TOOLS DWG NO. RBT67828-B MAT'L SCHEDULE 40 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX + .03 ANGLES ±1° X ± .1 SURFACES = 125/ HEAT TREAT FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D 1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DRAWN BY: PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT MD HELICOPTERS SCALE 1:4 7/1/2005 SHEET 3 OF 7

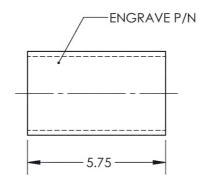


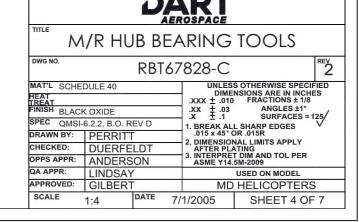
PRESS BEARING CUPS OUT OF HUB

	REVISIONS REVISIONS							
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
1		-C MATERIAL CH'D WAS SCHEDULE 40 IS DOM SEAMLESS.	10/16/2013	RJC				
2		-C CH'D DIM'S WAS Ø3.5 IS Ø3.50, WAS Ø3.094 IS (Ø3.068). ADDED NOTE ENGRAVE P/N, CH'D MATERIAL WAS DOM SEAMLESS IS SCHEDULE 40. CH'D TOLERANCES FROM ±.005 TO ±.010, FROM ±.01 TO ±.03.	3/3/2017	RJC	JAG			





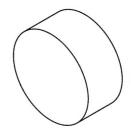


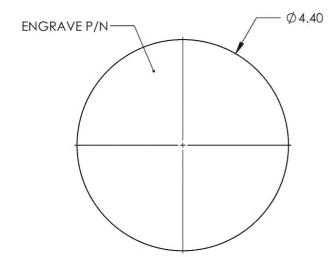


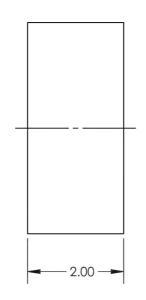


PRESS LOWER BEARING CONE ON SLEEVE BUSHING

	REVISIONS							
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
2	17-0054	-D CH'D DIM WAS Ø4.4 IS Ø4.40, WAS 2 IS 2.00. ADDED NOTE ENGRAVE P/N. CH'D TOLERANCES FROM $\pm.005$ TO $\pm.010$ , FROM $\pm.01$ TO $\pm.03$ .	3/3/2017	RJC	JAG			









DWG NO.

M/R HUB BEARING TOOLS

RBT67828-D MAT'L 6061 TREAT FINISH BLACK ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS II DRAWN BY:

SURFACES = 125

1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: USED ON MODEL LINDSAY MD HELICOPTERS

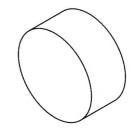
APPROVED: GILBERT SCALE 1:2

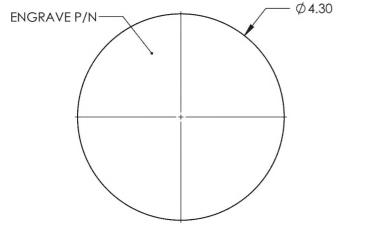
7/1/2005 SHEET 5 OF 7

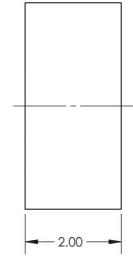
UNLESS OTHERWISE SPECIFIED

PRESS UPPER BEARING CUP INTO HUB

	REVISIONS							
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED			
2	17-0054	-E CH'D DIM WAS Ø4.3 IS Ø4.30, WAS 2 IS 2.00. ADDED NOTE ENGRAVE P/N. CH'D TOLERANCES FROM ±.005 TO ±.010, FROM ±.01 TO ±.03.	3/3/2017	RJC	JAG			









DWG NO.

SCALE

M/R HUB BEARING TOOLS

RBT67828-E MAT'L 6061 TREAT FINISH BLACK ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS II DRAWN BY: PERRITT

1:2

SURFACES = 125

UNLESS OTHERWISE SPECIFIED

SHEET 6 OF 7

1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: USED ON MODEL LINDSAY APPROVED: GILBERT MD HELICOPTER

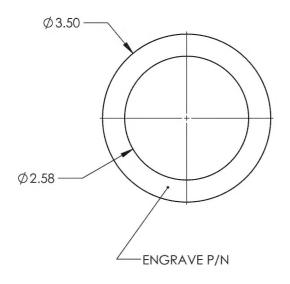
7/1/2005

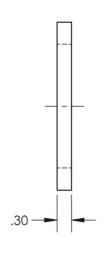
(-E)

PRESS LOWER BEARING CUP INTO HUB

	REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED		
2	17-0054	-F CH'D DIM WAS Ø3.5 IS Ø3.50, WAS .3 IS .30. ADDED NOTE ENGRAVE P/N, CH'D MATERIAL WAS STEEL IS 4140/4142. CH'D TOLERANCES FROM ±.005 TO ±.010, FROM ±.01 TO ±.03.	3/3/2017	RJC	JAG		







IN PLACE OF UPPER SEAL RETAINER WHILE ADJUSTING ROTATIONAL DRAG

DWG NO.

M/R HUB BEARING TOOLS

RBT67828-F

MAT'L 4140/4142 UNLESS OTHERWISE SPECIFIED TREAT
FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D DRAWN BY: PERRITT CHECKED:

SURFACES = 125

1. BREAK ALL SHARP EDGES .015 x 45 'OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 DUERFELDT OPPS APPR: ANDERSON

QA APPR: LINDSAY USED ON MODEL APPROVED: MD HELICOPTERS GILBERT SCALE 1:2 7/1/2005 SHEET 7 OF 7